

t121\_gfacirc1  
(TMaiZfLtP4p3foMJ6xdaRgRyPUFXmydXyY4)

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Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k14\_twoscomp : \iota$  be given. Let  $k3\_msafree2 : \iota \Rightarrow \iota$  be given. Let  $k46\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k48\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k10\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k12\_gfacirc1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k9\_facirc.1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k8\_facirc.1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (k4\_tarski (k10\_finseq\_1 X0 \\ & X1) k14\_twoscomp \in k3\_msafree2 (k10\_gfacirc1 X0 X1 X2)) \wedge (k12\_gfacirc1 \\ & X0 X1 X2 \in k3\_msafree2 (k10\_gfacirc1 X0 X1 X2)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k48\_gfacirc1 X0 X1 X2 = k9\_facirc.1 \\ & X0 X1 X2 k14\_twoscomp \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k46\_gfacirc1 X0 X1 X2 = k8\_facirc.1 \\ & X0 X1 X2 k14\_twoscomp \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k12\_gfacirc1 X0 X1 X2 = k9\_facirc.1 \\ & X0 X1 X2 k14\_twoscomp \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. k10\_gfacirc1 X0 X1 X2 = k8\_facirc.1 \\ & X0 X1 X2 k14\_twoscomp \end{aligned} \tag{5}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (k4\_tarski (k10\_finseq\_1 X0 \\ & X1) k14\_twoscomp \in k3\_msafree2 (k46\_gfacirc1 X0 X1 X2)) \wedge (k48\_gfacirc1 \\ & X0 X1 X2 \in k3\_msafree2 (k46\_gfacirc1 X0 X1 X2)) \end{aligned}$$